Rosenthal, Steven

From:

Wagner, Anna on behalf of R5AirEnforcement

Sent:

Monday, April 22, 2019 12:41 PM

To:

Rosenthal, Steven; Miller, Patrick

Subject:

FW: HTC 2019 Q1 EE Report

Attachments:

Q1 2019 HTC EPA EE Report.pdf

FYI

From: Niemi, Tasha M < Tasha. Niemi@clevelandcliffs.com>

Sent: Tuesday, April 09, 2019 2:46 PM

To: R5AirEnforcement <R5AirEnforcement@epa.gov>

Subject: HTC 2019 Q1 EE Report

Please see the attached report for Hibbing Taconite Company:

Name of the Regulated Party:	Hibbing Taconite Company	
Name of Facility Contact:	Julie Lucas	
Permit Number :	13700061	
Air Quality File Number:	541/Agency Interest ID #1146	
List of Reports Submitted:	HTC 1Q 2019 Excess Emissions Report	
Date of Submission:	4/9/2019	
Where Facility is Located:	Hibbing, St. Louis County, MN	

Sincerely, Tasha Niemi



TASHA NIEMI

Environmental Representative - Plant P 218.262.6884 tasha.niemi@clevelandcliffs.com

CLEVELAND-CLIFFS INC.
Hibbing Taconite Company
4950 Hwy 5 North, PO Box 589, Hibbing, MN 55746-0589
P 218.262.5950 F 218.262.6877 clevelandcliffs.com

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HIBBING TACONITE COMPANY
Managed by Cliffs Mining Company
4950 County Highway 5 North, P.O. Box 589, Hibbing, MN 55746-0589
P 218.262.5950 clevelandcliffs.com

April 9, 2019

Regional Administrator
Air and Radiation Division
US EPA, Region 5 (A-18J)
77 West Jackson Boulevard
Chicago, IL 60604
R5airenforcement@epa.gov

Re:

Hibbing Taconite Company's Quarter 1 2019
Excess Emissions & Monitoring Performance Report
Permit Number 13700061

To Whom It May Concern:

Hibbing Taconite Company (HTC) is subject to the 2016 Revision to 2013 Taconite Federal Implementation Plan Establishing BART for Taconite Plants (FIP) which requires the installation of Continuous Emission Monitors (CEMS) to monitor nitrogen oxides (NO_x) and sulfur dioxide (SO_2). This submittal satisfies the requirements of 40 CFR 52.1235(e)(7).

Per 40 CFR 52.1235(c)(4)(v), HTC is to provide a report of each performance evaluation and QA/QC check within 60 days of completion. The most recent performance evaluation results were submitted to the EPA on February 12th, 2019 from cylinder gas audits performed during January/February 2019. A summary of the results are attached in Attachment A. During the reporting period, there were no out-of-control periods from the daily calibration drift assessments.

HTC does not have a limit in effect at this time associated with the NO_x CEMS, therefore the proposed NO_x limit listed in the FIP is not yet enforceable. The initial SO_2 limit came into effect during the 1^{st} Quarter 2017 reporting period and was revised on April 11, 2018 to 347.4 lbs SO_2 /hr. Attached is HTC's Quarterly Excess Emissions and Monitoring System Performance Report. Considering that HTC's NO_x limit is not yet enforceable, HTC's report will contain a zero (0) in the boxes related to excess emission events. Periods of downtime that occurred during this reporting quarter are listed by monitor in the attached report.

Please contact Julie Lucas at (218) 262-6856 or <u>julie.lucas@clevelandcliffs.com</u> if you have any questions regarding this report.

I certify, based on the information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Sincerely,

Edward LaTendresse

General Manager

Cc: Julie Lucas, HTC

Jason Aagenes, Cleveland Cliffs

Eland Johns

Attachment A: Quality Control Reporting
Relative Accuracy Test Audit Results
Cylinder Gas Audit Results

					RATA'	S			
Emission Unit (EU)	Stack Vent (SV)	EU Description	Monitor	Pollutant	Audit Date	Results (%)	Next Test Due	Pass/Fail	Comments
-	Furnace	NeMP	NOx	7/18/2018	1.7	3rd Quarter, 2019	Pass	Results less than 20%	
8	021	Line One, Stack 1	No MR	SO ₂	7/18/2018	2.1	3rd Quarter, 2019	Pass	Results less than 20%
	022	Furnace Line One,	No MR	NO _x	7/19/2018	8.3	3rd Quarter, 2019	Pass	Results less than 20%
020	022	Stack 2	ING IVIK	SO₂	7/19/2018	10.0	3rd Quarter, 2019	Pass	Results less than 20%
020	023	Furnace Line One,	No MR	NO _x	7/18/2018	2.3	3rd Quarter, 2019	Pass	Results less than 20%
		Stack 3	NOWN	SO ₂	7/18/2018	2.2	3rd Quarter, 2019	Pass	Results less than 20%
	024	Furnace Line One,	No MR	NO _x	7/19/2018	9.9	3rd Quarter, 2019	Pass	Results less than 20%
	024	Stack 4	NOWN	SO ₂	7/19/2018	10.9	3rd Quarter, 2019	Pass	Results less than 20%
	025	Furnace Line Two,	No MR	NOx	7/17/2018	4.8	3rd Quarter, 2019	Pass	Results less than 20%
	023	Stack 4	NOTVIK	SO₂	8/17/2018	6.6	3rd Quarter, 2019	Pass	Results less than 20%
	026	Furnace Line Two,	No MR	NOx	7/17/2018	2.2	3rd Quarter, 2019	Pass	Results less than 20%
021	020	Stack 3		SO₂	7/17/2018	2.5	3rd Quarter, 2019	Pass	Results less than 20%
022	027	Furnace Line Two,		NO _x	7/17/2018	8.2	3rd Quarter, 2019	Pass	Results less than 20%
,	OL7	Stack 2	NOTVIN	SO ₂	7/17/2018	10.7	3rd Quarter, 2019	Pass	Results less than 20%
	028	Furnace Line Two,	No MR	NO _x	7/17/2018	11.9	3rd Quarter, 2019	Pass	Results less than 20%
Sair		Stack 1		SO ₂	7/17/2018	7.6	3rd Quarter, 2019	Pass	Results less than 20%
	029	Furnace Line One,	No MR	NO _x	7/16/2018	5.2	3rd Quarter, 2019	Pass	Results less than 20%
		Stack 1		SO ₂	7/16/2018	1.8	3rd Quarter, 2019	Pass	Results less than 20%
	030	Furnace Line One,	No MR	NO _x	7/16/2018	8.5	3rd Quarter, 2019	Pass	Results less than 20%
022	0.50	Stack 2	TVO WIIV	SO ₂	7/16/2018	5.4	3rd Quarter, 2019	Pass	Results less than 20%
522	031	Furnace Line One,	No MR	NO _x	7/16/2018	8.3	3rd Quarter, 2019	Pass	Results less than 20%
		Stack 3	IVO IVIII	SO ₂	7/16/2018	10.7	3rd Quarter, 2019	Pass	Results less than 20%
	032	Furnace Line One,	No MR	NO _x	7/16/2018	7.3	3rd Quarter, 2019	Pass	Results less than 20%
	032	Stack 4	NO IVIN	SO ₂	7/16/2018	3.3	3rd Quarter, 2019	Pass	Results less than 20%

^{*}The full RATA report has previously been submitted to the EPA. Refer to the referenced report for more information.

					CGA'	S								
Emission Unit (EU)	Stack Vent (SV)	EU Description	Monitor	Pollutant	Audit Date	Results (L/M%)	Next Test Due	Pass/Fail	Comments					
	023	Furnace	No MR	NOx	2/4/2019	0.3/1.7	2nd Quarter, 2019	Pass						
	021	Line One, Stack 1	IVO IVIK	SO₂	1/29/2019	2.6/1.8	2nd Quarter, 2019	Pass						
	022	Furnace Line One,	No MR	NOx	2/4/2019	1.1/2.7	2nd Quarter, 2019	Pass						
070	022	Stack 2	NOMA	SO₂	1/29/2019	2.7/3.5	2nd Quarter, 2019	Pass	None					
020	023	Furnace	No MD	NOx	2/4/2019	0.8/0.8	2nd Quarter, 2019	Pass	None					
	023	Line One, Stack 3	No MR	SO ₂	1/29/2019	4.8/0.7	2nd Quarter, 2019	Pass						
	224	Furnace	M- NID	NOx	2/4/2019	1.7/0.3	2nd Quarter, 2019	Pass						
	024	Line One, Stack 4	No MR	SO₂	1/29/2019	6.6/0.1	2nd Quarter, 2019	Pass						
	225	Furnace		NO _x	1/29/2019	0.9/1.5	2nd Quarter, 2019	Pass						
	025	Line Two, Stack 4	No MR	SO₂	2/1/2019	4.9/3.2	2nd Quarter, 2019	Pass						
	026	Furnace	N-ND	NO _x	1/29/2019	2.4/1.5	2nd Quarter, 2019	Pass						
	026	Line Two, Stack 3	No MR	SO₂	2/1/2019	5.7/3.7	2nd Quarter, 2019	Pass	N					
021	027	Furnace	N. N.	NOx	1/29/2019	0.2/1.1	2nd Quarter, 2019	Pass	None					
	027	Line Two, Stack 2	No MR	SO₂	2/1/2019	1.3/0.0	2nd Quarter, 2019	Pass	44					
	028	Furnace		NOx	1/29/2019	1.3/0.3	2nd Quarter, 2019	Pass						
		Line Two, Stack 1	No MR	SO ₂	2/1/2019	5.0/2.5	2nd Quarter, 2019	Pass						
	220	Furnace	AL- NID	NO _x	1/31/2019	0.5/1.7	2nd Quarter, 2019	Pass						
	029	Line One, Stack 1	No MR	SO ₂	2/6/2019	3.3/0.9	2nd Quarter, 2019	Pass						
	020	Furnace	NI- NAD	NO _x	1/31/2019	2.0/2.9	2nd Quarter, 2019	Pass						
222	030	030	030	030	030	030	Line One, Stack 2	No MR	SO ₂	2/6/2019	4.9/1.2	2nd Quarter, 2019	Pass	None
022	024	Furnace	NeMP	NOx	1/31/2019	2.3/2.0	2nd Quarter, 2019	Pass	None					
	031	Line One, Stack 3	No MR	SO ₂	2/6/2019	1.7/0.5	2nd Quarter, 2019	Pass						
	022	Furnace	No MD	NO _x	1/31/2019	2.3/2.0	2nd Quarter, 2019	Pass						
	032	Line One, Stack 4	No MR	SO ₂	2/6/2019	4.3/1.5	2nd Quarter, 2019	Pass						

See .

		- I				•
	1	Cylir	ider Gas Audit Inf	ormation	1	
						Certified
	Test		Cylinder ID	Date of	Type of	Audit
Gas	Level	Analyzers	Number	Certification	Certification	Value
NOX	Low	SV021-SV032	CC486540	2/8/2018	EPA Protocol	50.64
NOX	Mid	SV021-SV032	EB0094336	3/27/2018	EPA Protocol	99.06
SO2	Low	SV021-SV024	CC400334	11/7/2017	EPA Protocol	12.61
SO2	Low	SV025-SV032	CC416844	8/13/2018	EPA Protocol	12.69
SO2	Mid	SV021-SV024	CC50524	8/20/2017	EPA Protocol	24.49
SO2	Mid	SV025-SV032	CC414268	11/7/2017	EPA Protocol	24.93

Attachment B: Excess Emissions Report

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019 Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Process Unit Identification:

Hibbing MN

EU020, EU021, EU022

Process Unit Description;

Pellet indurating Furnace Line No. 1, 2 & 3; straight grate indurating furnaces.

See Individual Stacks See Individual Stacks 347.4 lbs SO2/hr (30 day rolling average)

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyze:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Serial Number:
Date of Latest CMS Certification or Audit

SO2

See Individual Stacks See Individual Stacks See Individual Stacks

See Individual Stacks

Description of changes in CEMS, processes, or controls since last reporting period;

See Individual Stacks

Excess Emissions Summary	
1. Duration of excess emissions in reporting period due to:	
a. Startup/Shutdown	0.0
b, Control equipment problems	0.0
c. Pracess problems	0,0
d, Other known causes	0.0
e, Unknown causes	0.0
2. Total duration of excess emissions (days)	0.0
3. Total duration of excess emissions (%)	0.00%

					Excess Emissions Details	
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There were no neriods of eyess emissions during this reporting period						

	CMS Downtime Details								
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action					
	See Individual Stacks								
				I					

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019 Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Process Unit Identification:

Hibbing MN EU020

Process Unit Description:

Peliet Indurating Furnace Line No. 1; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation:

1,740 hours 74 days N/A NOX

Emission Lumrabon: Analyzer Analyte; Analyzer Manufacturer: Analyzer Manufacturer Model No.; Analyzer Serial Number; Date of Latest CMS Certification or Audit:

See Individual Stacks See Individual Stacks See Individual Stacks See Individual Stacks

See Individual Stacks

Excess Emissions Summary	
Duration of excess emissions in reporting period due to:	
a. Starfup/Shutdown	0.0
 b. Control equipment problems 	0.0
c. Process problems	0.0
d, Other known causes	0.0
e, Unknown causes	0,0
2. Total duration of excess emissions (days)	. 0.0
3. Total duration of excess emissions (%)	0.00%

				Excess Emissions Details					
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant Magnitude of Emissions	Cause of Excess Emissions	Corrective Action				

	CMS Downtime Details								
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action					
	See Individual Stacks								
		.,							

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019 Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Process Unit Identification:

Hibbling MN EU020 SV021

Process Unit Description:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace,

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Errission Limitation:
Analyzer Analyte:
Analyzer Manufacturer:
Analyzer Manufacturer Nodel No.:
Analyzer Manufacturer
Date of Lafest CMS Certification or Audit:

1,740 hours 74 days N/A NOX Teledyne Monitor Labs 1240M 225 2/4/2019

Excess Emissions Summary	
1. Duration of excess emissions in reporting period due to:	
a, Startup/Shutdown	0.0
b, Control equipment problems	0,0
c. Process problems	0.0
d. Other known causes	0,0
e, Unknown causes	0,0
2. Total duration of excess emissions (days)	0.0
3, Total duration of excess emissions (%)	0.00%

CMS Performance Summary				
CMS Downtime in reporting period due to:				
a. Monitor equipment malfunctions	0.0			
 b. Non-Monitor equipment malfunctions 	15.0			
 quality assurance calibration 	0_0			
d. Other known causes	0.0			
e. Unknown causes	8_0			
2, Total CMS Downtime (hours)	15.0			
3 Total CMS Dountime (%)	n near			

					Excess Emissions Details	
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There were no periods of excess emissions during this reporting period						

	CMS Downtime Details					
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action		
1/29/19 23:00	1/30/2019 13:59	15.0	Non-Manitor equipment malfunctions	Extreme cold caused freeze up, Returned to operation, Followed SSM plan.		
		0,0				
		0,0				
		0.0				
		0.0				
		0.0				
		0,0				
		0.0				

Reporting Period Dates;

January 1, 2019 - March 31, 2019

Company Name;

Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Hibbing MN

Process Unit Identification:

EU020 SV021

Process Unit Description:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation: Analyzer Analyte: Analyzer Marufacturer: Analyzer Marufacturer: Analyzer Serial Number: Date of Latest CMS Certification or Audit.

1,740 hours 74 days N/A SO2 Teledyne Monitor Labs T100H

137

1/29/2019

Description of changes in CEMS, processes, or controls since last reporting period;

Excess Emissions Summary	
Duration of excess emissions in reporting period due to:	
a. Startup/Shutdown	0.0
 b. Control equipment problems 	0,0
c, Pracess problems	0.0
d, Other known causes	0.0
e, Unknown causes	0,0
2. Total duration of excess emissions (days)	0.0
3. Total duration of excess emissions (%)	0.00%

CMS Performance Summary	
CMS Downtime in reporting period due to:	
 Monitor equipment malfunctions 	0.0
 b. Non-Monitor equipment malfunctions 	15,0
c. Quality assurance calibration	0,0
d, Other known causes	0.0
e, Unknown causes	0.0
2, Total CMS Downtime (hours)	15.6
2. Total CHIC Dougling (94)	0.869

	<u> </u>				Excess Emissions Details	
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There were no periods of excess emissions during this reporting period						

	CMS Downtime Details						
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action			
1/29/19 23:DD	1/30/2019 13:59	15.0	Non-Monitor equipment malfunctions	Extreme cold caused freeze up, Returned to operation, Followed SSM plan.			
		0,0					
	-	0.0					
		0.0					
		0.0					
		0,0					
		0.0					
		0.0					

Company Name;

January 1, 2019 - March 31, 2019 Hibbling Taconite Company 4950 Hwy 5 North

Company Address:

Hibbing MN

Process Unit Identification:

EU020 SV021

Process Unit Description:

Pellet Indurating Furnaca Line No. 1; straight grate Indurating furnace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analytex
Analyzer Manufacturer.
Analyzer Manufacturer Model No.:
Analyzer Serial Number:
Date of Latest CMS Certification or Audit: 1,740 hours 74 days N/A Stack Flow Slick Malhak FLSE 100-H K178 35HSHS 13438339/ 8398564 7/18/2018

Description of changes in CEMS, processes, or controls since last reporting period:

Excess Emissions Summary	
1. Duration of excess emissions in reporting period due to:	
a, Startup/Shutdown	0.0
 b. Control equipment problems 	0.0
c. Process problems	0.0
d. Other known causes	0.0
B, Unknown causes	0.0
2. Total duration of excess emissions (days)	0,0
3. Total duration of excess emissions (%)	0.00%

	CMS Performance Summary
	CMS Downtime in reporting period due to:
. 0	a, Monitor equipment melfunctions
0	 b. Non-Monitor equipment malfunctions
0	 Quality assurance galibration
O	d. Other known causes
0	e. Unknown causes
0	2. Total CMS Downtime (hours)
0,00	3. Total CMS Downtime (%)

				Excess Emissions Details	
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There were no periods of excess emissions during this reporting period					

CMS Downtime Details					
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action	
			There were no periods of downtime during this reportin	g period.	
		0,0			
		0.0			
		0,0			
		0.0			
		0,0			
		0.0			
		0.0			

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019

Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Hibbing MN

Process Unit Identification:

EU020 SV022

Process Unit Description:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace,

Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation:

1,740 hours 74 days N/A NOX Teledyne Monitor Labs T200M

Emission Limitation: Analyzer Analyte: Analyzer Manufacturer: Analyzer Manufacturer Model No.: Analyzer Serial Number: Date of Latest CMS Certification or Audit:

226 2/4/2019

N/A

Description of changes in CEMS, processes, or controls since last reporting period:

, =,
Excess Emissions Summary
Duration of excess emissions in reporting period due to:

ı	a. Startup/Shutdown	
I	 b. Control equipment problems 	
1	c. Process problems	
ı	d. Other known causes	
ı	e. Unknown causes	
ı	Total duration of excess emissions (days)	
ı	3. Total duration of excess emissions (%)	n.o

CMS Performance Summary				
CMS Downtime in reporting period due to:				
 Monitor equipment malfunctions 	0.0			
 b. Non-Monitor equipment malfunctions 	0.0			
c. Quality assurance calibration	0.0			
d. Other known causes	0.0			
e, Unknown causes	0.0			
2, Total CMS Downtime (hours)	0.0			
3. Total CMS Downtime (%)	0.00%			

				Excess Emissions Details		
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant Magnitude of Emissions	Cause of Excess Emissions	Corrective Action	
There were no periods of excess emissions during this reporting period						

	CMS Downthine Details							
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action				
	There were no periods of downtime during this reporting period.							
		0,0						
		0.0						
		0.0						
		0,0						
		0,0						
		0.0						
	<u> </u>	0,0						

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019 Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Process Unit Identification:

Hibbing MN EU020 5V022

Process Unit Description;

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace.

1,740 hours 74 days N/A SO2 Teledyne Monitor Labs T100H 138 1/29/2019

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyze:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Sarial Number:
Date of Latest CMS Certification or Audit:

Description of changes in CEMS, processes, or controls since last reporting period;

NIA

Excess Emissions Summary					
Duration of excess emissions in reporting period due to:					
a. Startup/Shutdown	0.0				
 b. Control equipment problems 	0.0				
c. Process problems	0,0				
d, Other known causes	0.0				
e, Unknown causes	0.0				
2. Total duration of excess emissions (days)	0,6				
3. Total duration of excess emissions (%)	0.00%				

CMS Performance Summary					
CMS Downtime in reporting period due to:					
a. Monitor equipment malfunctions	0.0				
 b. Non-Monitor equipment malfunctions 	0.0				
 c. Quality assurance calibration 	0.0				
d. Other known causes	0.0				
e. Unknown causes	0.0				
2. Total GMS Downtime (hours)	0.0				
2 Total CMS Dougrams (9/1)	0.000				

					Excess Emissions Details			
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action		
	There were no patiods of excess ensissions during this reporting period							

	CMS Downtime Details							
Start Date & Time				·				
	There were no periods of downsme during this reporting period.							
		0.0						
		0.0						
		0.0						
		0,0						
		0,0						
		0.0						
		0.0						

Reporting Period Dates:

January 1, 2019 - March 31, 2019

Company Name:

Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Hibbing MN

Process Unit Identification;

EU020 SV022

Process Unit Description:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace,

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyte:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Serial Number:
Date of Latest CMS Certification or Audit:

1,740 hours 74 days N/A Stack Flow Slack Malhak FLSE 100-H K178 35HSHS 113186867 11318687 7/19/2018

Description of changes in CEMS, processes, or controls since last reporting period:

Excess Emissions Summary					
1, Duration of excess emissions in reporting period due to:					
a. Startup/Shutdown	0.0				
 b. Control equipment problems 	0.0				
c. Process problems	0.0				
d, Other known causes	0.0				
e. Unknown causes	0.0				
Total duration of excess emissions (days)	0.0				
3. Total duration of excess emissions (%)	0.00%				

CMS Performance Summary					
CMS Downtime in reporting period due to:					
a. Monitor equipment malfunctions	0,0				
 Non-Monitor equipment malfunctions 	0.0				
c. Quality assurance calibration	0.0				
d. Other known causes	0.0				
e, Unknown causes	0,0				
2. Total CMS Downtime (hours)	0.0				
3. Total CMS Downtime (%)	0.00%				

	Excess Emissions Details						
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)		Magnitude of Emissions	Cause of Excess Emissions	Corrective Action	
	There were no periods of excess emissions during this reporting period						

	CMS Downtime Details						
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action			
	There were no periods of downtime during this reparting period.						
		0.0					
		D.O					
		0.0					
		0.0					
		0,0					
		0.0					
		0.0					

Reporting Period Dates;

January 1, 2019 - March 31, 2019

Company Name;

Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Hibbing MN

Process Unit Identification:

EU020 SV023

Process Unit Description;

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period; Emission Limitation;

1,740 hours 74 days N/A NOX Telsdyne Moniror Labs T200M

Emission Limitation: Analyzer Analyte: Analyzer Manufacturer; Analyzer Manufacturer Model No.: Analyzer Serial Number: Date of Latest CMS Certification or Audit

224 2/4/2019

Description of changes in CEMS, processes, or controls since last reporting period;

Excess Emissions Summary					
1. Duration of excess emissions in reporting period due to:					
a, Startup/Shutdown	0.0				
 b. Control equipment problems 	0.0				
c. Process problems	0,0				
d, Other known causes	0.0				
e, Unknown causes	0.0				
2. Total duration of excess emissions (days)	0,0				
3. Total duration of excess emissions (%)	0.00%				

CMS Performance Summary				
CMS Downtime in reporting period due to:				
a. Monitor equipment malfunctions	0.4			
 b. Non-Manitor equipment malfunctions 	0.0			
 Quality assurance calibration 	0,0			
d. Other known causes	0.0			
e. Unknown causes	0.0			
2. Total CMS Dovintime (hours)	0.0			
3. Total CMS Downtime (%)	0.00%			

Excess Emissions Detail's							
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action	
There were no periods of excess emissions during this reporting period							

	CMS Downtime Details						
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action			
	There were no periods of downtime during this reporting period.						
		0.0					
		0.0					
		0,0					
		0,0					
		0,0					
		0.0					
] .	0.0					

Reporting Period Dates; Company Name;

January 1, 2019 - March 31, 2019 Hibbing Taconite Company

Company Address:

4950 Hwy 6 North

NM griddiH

Process Unit Identification:

EU020 SV023

Process Unit Description:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace,

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyze:
Analyzer Manufacturer:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Serial Number:
Date of Latest CMS Certification or Audit

1,740 hours 74 days NIA SO2 Teledyne Monitor Labs T100H 134 1/29/2019

Description of changes in CEMS, processes, or controls since last reporting period:

Excess Emissions Summary	
Duration of excess emissions in reporting period due to:	
a. Startup/Shutdown	0.0
 b. Control equipment problems 	0.0
c. Process problems	0,0
d. Other known causes	0.0
e, Unknown causes	0,0
2. Total duration of excess emissions (days)	0,0
3. Total duration of excess emissions (%)	0.00%

CMS Performance Summary				
t, CMS Downtime in reporting period due to:				
a. Monitor equipment malfunctions	0.0			
 b. Non-Monitor equipment malfunctions 	0,0			
 c. Quality assurance calibration 	0.0			
d. Other known causes	0.0			
e, Unknown causes	0.0			
2. Total CMS Downtime (hours)	0.0			
9. Total CMS Dougstime (%)	0.00%			

					Excess Emissions Details		
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action	
There were no periods of excess emissions during this reporting period							

	CMS Downtime Details						
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action			
			There were no periods of dow	ntime during this reporting period.			
		0,0					
		0,0					
•		0.0					
		0.0					
		0.0					
		0,0					
		0.0					

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019 Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Hibbing MN

Process Unit Identification:

EU020 SV023

Process Unit Description:

Pelfet indurating Furnace Line No. 1; straight grate indurating furnace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation;
Analyzer Analyze:
Analyzer Manufacturer:
Analyzer Manufacturer:
Analyzer Manufacturer:
Analyzer Senti

1,746 hours 74 days NA Stack Flow Sick Malhak FLSE 100-H K178 35HSHS 11318686/ 11318679 7/18/2018

Excess Emissions Summary				
Duration of excess emissions in reporting period due to;				
a, Startup/Shutdown	0.0			
 b. Control equipment problems 	0.0			
c. Process problems	0,0			
d. Other known causes	0.0			
e, Unknown causes	0.0			
2. Total duration of excess emissions (days)	0.0			
3. Total duration of excess emissions (%)	0,00%			

CMS Performance Summary				
CMS Downtime in reporting period due to:				
a. Monitor equipment malfunctions	4.6			
 b. Non-Monitor equipment malfunctions 	0.0			
 Quality assurance calibration 	0.0			
d. Other known causes	0.0			
B. Unknown causes	0.0			
2, Total CMS Downtime (hours)	4.0			
3. Total CMS Downtime (%)	0.23%			

Excess Emissions Details						
Start Date & Time End Date & Time	Duration of Excess Emissions (hours) Pollutant	Magnitude of Emissions Cause of E	xcess Emissions	Corrective Action		
There were no periods of excess enrissions during this reporting period						

CMS Downtime Details						
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action		
01/08/2019 17:00	01/08/2019 17:59	1.0	Monitor equipment malfunctions	Thawad frozen flow meter. Returned to operation. Followed SSM Plan		
01/09/2019 06:00	01/09/2019 07:59	2.0	Monitor equipment malfunctions	Thawad frozen flow meter, Returned to operation. Followed SSM Plan		
01/16/2019 04:00	01/16/2019 04:59	1.0	Monitor equipment malfunctions	Thaved frozen flow meter. Returned to operation, Followed SSM Plan		
		0.0				
	· "	0.0				
		0.0				
		0.00				
		0.00				

Reporting Period Dates:

January 1, 2019 - March 31, 2019

Company Name:

Hibbling Taconite Company

Company Address:

4950 Hwy 5 North

Hibbing MN EU020 SV024

Process Unit Identification; Process Unit Description:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace,

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyze:
Analyzer Manufacturer Model No.:
Analyzer Manufacturer Model No.:
Date of Latest CMS Certification or Audit:

1,740 hours 74 days

N/A NOX

Teledyne Monitor Labs T200M 215

2/4/2019

Description of changes in CEMS, processes, or controls since last reporting period:

Excess Emissions Summary	
Duration of excess emissions in reporting period due to:	
a. Startup/Shutdown	0.0
 b. Control equipment problems 	0,0
 a. Process problems 	0.0
d, Other known causes	0.0
e, Unknown causes	0.0
2. Total duration of excess emissions (days)	0.0
3. Total duration of excess emissions (%)	0.00%

CMS Performance Summary					
CMS Downtime in reporting period due to:					
 Monitor equipment malfunctions 	0.0				
 b. Non-Monitor equipment malfunctions 	0.0				
 Quality assurance calibration 	0.0				
d. Other known causes	0.0				
e, Unknown causes	0.0				
2, Total GMS Downtime (hours)	0.0				
2 Total CMS Dountime (%)	0.000				

				Excess Emissions Details	
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours) Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There were no periods of excess emissions during this reporting period					

	CMS Downtime Details				
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action	
	•		There were no periods of downtime during to	nis reporting period.	
		0,0			
		0.0			
		0.0			
		0.0			
		0.0			
	<u> </u>	0.0			
	1	0.0			

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019 Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Hibbing MN

Process Unit Identification;

EU020 SV024

Process Unit Description:

Pellet Indurating Fumace Line No. 1; straight grate Indurating fumace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyze:
Analyzer Manufacturer:
Analyzer Manufacturer:
Analyzer Manufacturer Madel No.:
Analyzer Serial Number:
Date of Latest CMS Certification or Audit:

1,740 hours 74 days N/A SG2 Teledyne Monitor Labs T100H 135 1/28/2019

Description of changes in CEMS, processes, or controls since last reporting period:

Ν/A

Excess Emissions Summary			
Duration of excess emissions in reporting period due to:			
a. Startup/Shutdown	0,0		
 b. Control equipment problems 	0,0		
c. Process problems	0,0		
d, Other known causes	0.0		
e, Unknown causes	0.0		
Total duration of excess emissions (days)	0.0		
3. Total duration of excess emissions (%)			

CMS Performance Summary	
1, CMS Downtime in reporting period due to:	
a. Monitor equipment malfunctions	0.0
 b. Non-Monitor equipment malfunctions 	0,0
c. Quality assurance calibration	0.0
d. Other known causes	0.0
e, Unknown causes	0.0
2, Total CMS Downtime (hours)	0.0
3 Total CMS Dovertime (%)	0.009

					Excess Emissions Details	
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of " Emissions	Cause of Excess Emissions	Corrective Action
There were no periods of excess ornissions during file reporting period						

	CMS Downtine Details							
Start Date & Time	End Date & Time	Duration of Monitor Cause of Monitor Downtime Downtime (hours)		Corrective Action				
	There were no periods of downtime during this reporting period.							
		0.0						
		D.0						
		0.0						
		0.0						
	ą	0,0						
		0.0						
		0.0						

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019 Hibbing Taconite Company 4950 Hwy 5 North

Company Address;

Process Unit Identification;

Hibbing MN EU020 SV024

Process Unit Description:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyze:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Serial Number:
Date of Latest CMS Certification or Audit:

1,740 hours 74 days NJA Stack Flow Sick Maihak FLSE 100-H K178 35HSHS 18118323711168507 7/19/2018

N	10	

Excess Emissions Summary				
Duration of excess emissions in reporting period due to:				
a, Startup/Shutdown	0.0			
b. Control equipment problems	0,0			
c. Process problems	0,0			
d. Other known causes	0,0			
e, Unknown causes	0,0			
2. Total duration of excess emissions (days)	0.0			
3. Total duration of excess emissions (%)	0.00%			

CMS Performance Summary	
CMS Downtime in reporting period due to:	
a, Monitor equipment malfunctions	0.0
 Non-Monitor equipment malfunctions 	0.0
 Quality assurance calibration 	0.0
d, Other known causes	0.0
e, Unknown causes	0.0
, Total CMS Downtime (bours)	0.0
3. Total CMS Dountime (%)	0.00%

				Excess Emissions Details	
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There were no periods of excess emissions during this reporting period					

	CMS Downtime Details						
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action			
	There were no periods of downtime during this reporting period.						
		0.0					
		0.0					
		0.0					
		0.0					
		0,0					
		0.0					
		0.0					

Reporting Period Dates:

January 1, 2019 - March 31, 2019

Company Name:

Hibbing Taconite Company

Company Address:

4950 Hwy 5 North

Hibbing MN

Process Unit Identification:

EU021

Process Unit Description:

Peliet Indurating Furnace Line No. 2; straight grate indurating furnace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyte:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Analyte Number:
Date of Latest CMS Certification or Audit:

1,732 hours 75 days N/A NOX

See Individual Stacks See Individual Stacks See Individual Stacks See Individual Stacks

Description of changes in CEMS, processes, or controls since last reporting period;

See Individual Stacks

Excess Emissions Summary					
Duration of excess emissions in reporting period due to:					
a. Startup/Shutdown	0.0				
 b. Control equipment problems 	0.0				
c. Process problems	0,0				
d. Offner known causes	0.0				
e, Unknown causes	0.0				
2. Total duration of excess emissions (days)	0,0				
3. Total duration of excess emissions (%)	0.00%				

	Excess Emissions Details						
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Emissions	Cause of Excess Emissions	Corrective Action	
	There were no nations of excess entirelians digital this reporting period						

	CMS Downtime Details							
Start Date & Time End Date & Time Downtime Corrective Action Downtime (hours) Cause of Monitor Downtime Corrective Action								
	See Individual Stacks							
		0,00						
		0.00						
		0.00						
		0,00,						
		0,00						
		0.00						
		0.00						

Reporting Period Dates:

January 1, 2019 - March 31, 2019 Hibbing Taconite Company

Company Name:

Company Address:

4950 Hwy 5 North

Process Unit Identification:

KM gniddiH EU021 SV025

Process Unit Description:

Pellet Indurating Furnace Line No. 2; straight grate indurating furnace.

Total Source Operating Time in Reporting Pariod:
Total Source Operating Days in Reporting Period.
Emission Limitation:
Analyzer Analyte:
Analyzer Manufacturer Model No.:
Analyzer Manufacturer Model No.:
Analyzer Manufacturer Model No.:
Date of Latest CMS Certification or Audit

1,732 hours 75 days N/A NOX

Teledyne Monitor Labs T200M

199 1/29/2019

Description of changes in CEMS, processes, or controls since last reporting period;

NJA

Excess Emissions Summary	
Duration of excess emissions in reporting period due to:	
a. Startup/Shutdown	0.0
 b. Control equipment problems 	0.0
c. Process problems	0.0
d. Other known causes	0.0
e, Unknown causes	0,0
2, Total duration of excess emissions (days)	0.0
3. Total duration of excess emissions (%)	0.00%

CMS Performance Summary					
CMS Downtime in reporting period due to:					
a. Monitor equipment malfunctions	0.0				
 b. Non-Monitor equipment malfunctions 	0.0				
 Quality assurance calibration 	0.0				
d. Other known causes	0.6				
e. Unknown causes	0.4				
2. Total CMS Downtime (hours)	0.1				
3 Total CMS Downtime (%)	0.00%				

					Excess Emissions Details			
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action		
	There were na periods of excess emissions during this reporting period							

	CMS Downtime Details						
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action			
			There were no periods of downtim	e during this reporting period,			
		6,0					
		0,0					
		0.0					
		0.0					
		0.0					
		0,0					
		0.0					

Reporting Period Dates;

January 1, 2019 - March 31, 2019

Company Name:

Hibbing Taconite Company

Company Address:

4950 Hwy 5 North

Process Unit Identification:

Hibbing MN EU021 SV025

Pellet Indurating Furnace Line No. 2; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period:

1,732 hours 75 days N/A SO2

Total Source Operating Days in Reporting Emission Limitation: Analyzer Analyte: Analyzer Manufacturer Model No.: Analyzer Serial Number: Date of Latest CMS Certification or Audit:

Teledyne Monitor Labs T100H 117 2/1/2019

N/A

Description of changes in CEMS, processes, or controls since last reporting period;

Excess	s Emissions Summary
1. Duration of excess emissions	in reporting period due to:
a. Startup/Shutdown	,
 b. Control equipment proble 	ems

c. Process problems d. Other known causes e. Unknown causes 2. Total duration of excess emissions (days) 0.0 3, Total duration of excess emissions (%)

CMS Performance Summary					
CMS Downtime in reporting period due to:					
 Monitor equipment malfunctions 	0.0				
 b. Non-Monitor equipment malfunctions 	a,e				
 Quality assurance calibration 	0.0				
d. Other known causes	0,0				
e. Unknown gauses	0.0				
2. Total CMS Downtime (hours)	0.0				
3 Total CMS Dovertime (%)	0.000				

					Excess Emissions Detalls		
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action	
	There were no periods of excess emissions during this reporting period						

	CMS Downtime Details								
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action					
	There were no periods of downtime during this reporting period.								
		0,0							
	,	0.0							
		0.0							
		0.0							
		0.0							
		9.0							
		0.0							

Reporting Period Dates:

January 1, 2019 - March 31, 2019

Company Name:

Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Hibbing MN

Process Unit Identification:

EU021 SV025

Process Unit Description:

Pellet indurating Furnace Line No. 2; straight grate indurating furnace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyze:
Analyzer Manufacturer:
Analyzer Manufacturer Madel No.:
Analyzer Manufacturer Notel No.:
Date of Latest CMS Certification or Audit

1,732 hours 75 days N/A Stack Flow Sick Maihak FLSE 100-H K178 35HSHS 11318688/ 11318669 7/17/2018

N/A

Excess Emissions Summary					
Duration of excess emissions in reporting period due to:					
a, Startup/Shutdown	0.0				
 b. Control equipment problems 	0.0				
c. Process problems	0,0				
d, Other known causes	0,0				
e, Unknown causes	0.0				
2. Total duration of excess emissions (days)	0.0				
3. Total duration of excess emissions (%)	0,00%				

CMS Performance Summary						
CMS Downtime in reporting period due to:						
 a. Monitor equipment malfunctions 	31.0					
 b. Non-Monitor equipment malfunctions 	0,0					
 c. Quality assurance calibration 	0.0					
d, Other known causes	0.0					
e. Unknown causes	0.0					
2. Total CMS Downtime (hours)	31.0					
3 Total CMS Downtime (%)	1.79%					

				Excess Emissions Details			
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant Magnitude of Emissions	Cause of Excess Emissions	Corrective Action		
	There were no periods of excess emissions during this reporting period						

	CMS Downtime Details							
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Carrective Action				
1/1/19 20:00	1/1/2019 21:59	2.0	Monitor equipment malfunctions	Thawed frozen flow meter. Returned to operation. Followed SSM plan.				
1/2/19 2:00	1/2/2019 9:59	â,D	Monitor equipment malfunctions	Thawed frozen flow meter, Returned to operation. Followed SSM plan.				
1/2/19 14:00	1/3/2019 6:59	17.0	Monitor equipment malfunctions	Thawed frozen flow meter. Returned to operation. Followed SSM plan.				
3/4/19 4:00	3/4/2019 7:59	4,0	Monitor equipment malfunctions	Thawad frozen flow meter, Returned to operation. Followed SSM plan,				
		0.0						
		0,0						
		0.0						
		0.0						

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019

Hibbing Taconite Company 4950 Hwy 5 North

Company Address;

Hibbing MN

Process Unit Identification;

EU021 SV026

Process Unit Description:

Pellet Indurating Furnace Line No. 2; straight grate Indurating furnace,

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyze:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Serial Number.
Date of Latest CMS Certification or Audit:

1,732 hours

75 days N/A NGX

Teledyne Monitor Labs T200M 179

1/29/2019

Description of changes in CEMS, processes, or controls since last reporting period:

Excess Emissions Summary					
1. Duration of excess emissions in reporting period due to:					
a, Startup/Shutdown	D, B				
 b. Control equipment problems 	0,0				
c. Process problems	0,0				
d. Other known causes	0.0				
e. Unknown causes	0.0				
2. Total duration of excess emissions (days)	0.0				
3. Total duration of excess emissions (%)	0.00%				

CMS Performance Summary					
CMS Downfine in reporting period due to:					
a. Monitor equipment malfunctions	0.0				
 b. Non-Monitor equipment malfunctions 	0.0				
c, Quality assurance calibration	0.0				
d. Other known causes	0.0				
e. Unknown causes	0.0				
2, Total CMS Downtime (hours)	0.0				
3. Total CMS Downtime (%)	0.009				

					Excess Emissions Details	
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There were no periods of excess emissions during this reporting period						

	CMS Downtime Details							
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action				
			There were no periods of down	time during this reporting period.				
		0,0						
		0.0						
		0.0						
		0.0						
		0,0						
		0.0						
		0.0						

Reporting Period Dates:

January 1, 2019 - March 31, 2019 Hibbing Taconite Company 4950 Hwy 5 North

Company Name:

Company Address:

Process Unit Identification:

Hibbing MN EU021 SV026

Process Unit Description:

Pellet Indurating Furnace Line No. 2; straight grate indurating furnace,

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyte:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Manufacturer Notel

1,732 hours 75 days N/A SO2

Teledyne Monitor Labs T100H 115 2/5/2019

N	А	

Excess Emissions Summary					
Duration of excess emissions in reporting period due to:					
a, Startup/Shutdown	0.0				
 b. Control equipment problems 	0.0				
c, Process problems	0,0				
d. Other known causes	0.0				
e, Unknown causes	0,0				
2, Total duration of excess emissions (days)	0,0				
3. Total duration of excess emissions (%)	0.00%				

CMS Performance Summary						
1, CMS Downtime in reporting period due to:						
 a. Monitor equipment malfunctions 	0.0					
 b. Non-Monitor equipment malfunctions 	0.0					
 c. Quality assurance calibration 	0_0					
d. Other known causes	0.0					
e, Unknown causes	0.0					
2, Total CMS Downtime (hours)	0,0					
3 Total CMS Downtime (%)	0.00%					

	Excess Emissions Details							
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action		
There were no periods of excess emissions during this reporting period								

	CMS Downtime Details							
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action				
			There were no periods of down	name during this reporting period.				
		0,0						
		0,0						
		0.0						
		0.0						
		0.9						
		ů,ů						
		0.0]				

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019

Hibbling Taconite Company 4950 Hwy 5 North

Company Address:

Hibblng MN

Process Unit Identification:

EU021 SV026

Process Unit Description:

Pellet Indurating Furnace Line No. 2; straight grate Indurating furnace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyze:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Serial Number:
Date of Latest CMS Certification or Audit:

1,732 hours 75 days N/A Stack Flow Sick Maihak FLSE 100-H K178 35HSHS 11318672/ 11318885 717/2018

7/17/2018

Excess Emissions Summary				
Duration of excess emissions in reporting period due to:				
a, Startup/Shutdown	0.0			
b. Control equipment problems	0.0			
c, Process problems	0,0			
d, Other known causes	0.0			
e. Unknown causes	0.0			
2. Total duration of excess emissions (days)	D,O			
3. Total duration of excess emissions (%)	0.00%			

CMS Performance Summary				
CMS Downtime in reporting period due to:				
a, Monitor equipment malfunctions	0.0			
 Non-Monitor equipment malfunctions 	0.0			
 Quality assurance calibration 	0.0			
d. Other known causes	0.0			
e. Unknown causes	0_0			
2, Total CMS Downtime (hours)	0.0			
3, Total CMS Downtime (%)	0.00%			

				Excess Emissions Details	
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There were no periods of excess antissions during this reporting period					

CMS Downtime Details						
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action		
			There were no periods of downtime durin	g this reporting period.		
		0.0				
		0.0				
		0.0				
		0.0				
		0,0				
		0.0				
		0.0				

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019 Hibbing Taconite Company

4950 Hwy 5 North

Company Address:

Hibbing MN

Process Unit Identification:

EU021 SV027

Process Unit Description:

Pellet Indurating Fumace Line No. 2; straight grate indurating fumace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyze:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Famil Number:
Date of Latest CMS Certification or Audit

1,732 hours 75 days N/A NOX Teledyne Monitor Labs T200M

1/29/2019

Excess Emissions Summary				
Duration of excess emissions in reporting period due to:				
a, Startup/Shutdown	0,0			
 Control equipment problems 	0,0			
c. Process problems	0,0			
d, Other known causes	0.0			
e, Unknown causes	0.0			
2. Total duration of excess emissions (days)	0,0			
3, Total duration of excess emissions (%)	0.00%			

CMS Performance Summary				
CMS Downtime in reporting period due to:				
 a. Monitor equipment malfunctions 	0.0			
 b. Non-Monitor equipment malfunctions 	0.0			
 Quality assurance calibration 	0.0			
d. Other known causes	0,0			
e, Unknown causes	0.0			
2, Total CMS Downtime (hours)	0.0			
3. Total CNS Dougrams (%)	0.000			

					Excess Emissions Details	
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There waste no periods of excess emissions during this reporting period						

	CMS Downtime Details							
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action				
			There were no periods of down	ntime during this reporting period,				
		0.0						
		0.0						
		0.0						
		0,0	·					
		0,0						
		0.0						
	1	0,0						

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019

Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Hibbing MN

Process Unit Identification:

EU021 SV027

Process Unit Description:

Pellet Indurating Furnace Line No. 2; straight grate indurating furnace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyze: Analyze:
Analyze: Manufacturer:
Analyze: Manufacturer Model No.:
Analyze: Paralifacturer Model No.:
Onalyze: Analyze: Carl Number:
Date of Latest CMS Certification or Audit: 1,732 hours

75 days N/A SO2

Teledyne Monitor Labs T100H

116 2/1/2019

NIA	

Excess Emissions Summary					
 Duration of excess emissions in reporting period due to; 					
a, Startup/Shutdown	0.0				
 b. Control equipment problems 	0.0				
c. Process problems	0.0				
d. Other known causes	0.0				
e. Unknown causes	0.0				
2. Total duration of excess emissions (days)	0.0				
3, Total duration of excess emissions (%)	0,00%				

CMS Performance Summary					
CMS Downtime in reporting period due to:					
 a. Monitor equipment malfunctions 	0.0				
 b. Non-Monitor equipment malfunctions 	0,0				
c. Quality assurance calibration	0,0				
d, Other known causes	0,0				
e. Unknown causes	0.0				
2. Total CMS Downtime (hours)	0.0				
3 Total CMS Bowrifime (%)	0.00%				

				Excess Emissions Details	
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There were no periods of excess emissions during this reporting period					

	CMS Downtime Details						
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action			
	There were no periods of downtime during this reporting period.						
		0.0					
		0.0					
		0.0					
	,	0.0					
		0.0					
		0.0		·			
		0.0					

Reporting Period Dates:

January 1, 2019 - March 31, 2019

Company Name:

Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Hibbing MN

Process Unit Identification:

EU021 SV027

Process Unit Description;

PeBet Indurating Furnace Line No. 2; straight grate indurating furnace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyte:
Analyzer Manufacturer:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Serial Number:
Date of Latest CMS Certification or Audit:

1,732 hours 75 days N/A Stack Flow Sick Malbak FLSE 100-H K178 35HSHS 11318684/ 11318691 7/17/2018

Excess Emissions Summary				
1. Duration of excess emissions in reporting period due to:	•			
a. Startup/Shutdown	0.0			
 b. Control equipment problems 	0.0			
c, Process problems	0,0			
d, Other known causes	0,0			
e. Unknown causes	0.0			
Total duration of excess emissions (days)	0.0			
3. Total duration of excess emissions (%)	0.60%			

CMS Performance Summary					
CMS Downtime in reporting period due to:					
 a. Monitor equipment malfunctions 	3.0				
 b. Non-Monitor equipment malfunctions 	0.0				
c. Quality assurance calibration	0,0				
d, Other known causes	0.0				
e. Unknown causes	0,0				
2, Total CMS Downtime (hours)	3.0				
3. Total CMS Downtime (%)	0.17%				

Excess Emissions Details							
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant Magnitude of Emissions	Cause of Excess Emissions	Corrective Action		
There were no periods of excess emissions during this reporting period							

CMS Downtime Details						
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action		
3/11/19 16:00	3/11/2019 20:59	3.0	Monitor equipment malfunctions	Flow meter cleaned. Returned to operation. Followed SSM plan.		
		0,0				
		0.0				
		0,0				
		0.0				
		0,0				
		0.0				
MANAGON		0.0				

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019 Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Process Unit Identification:

Hibbing MN EU021 SV028

Process Unit Description:

Pellet Indurating Furnace Line No. 2; straight grate indurating furnace,

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyte:
Analyzer Manufacturer:
Analyzer Manufacturer:
Analyzer Manufacturer:
Analyzer Senial Number:
Date of Latest CMS Certificasion or Audit:

1,732 hours 75 days N/A · NOX Teledyne Monitor Labs 1200M 198 1/29/2019

Description of changes in CEMS, processes, or controls since last reporting period;

Excess Emissions Summary	
Duration of excess emissions in reporting period due to:	
a. Startup/Shutdown	0.0
b. Control equipment problems	0.0
c. Process problems	0.0
d. Other known causes	0.0
a. Unknown causes	0.0
2. Total duration of excess emissions (days)	0.0
3, Total duration of excess emissions (%)	0.00%

CMS Performance Summary				
CMS Downtime in reporting period due to:				
a. Monitor equipment malfunctions	0.0			
 b. Non-Monitor equipment melfunctions 	0.0			
 Quality assurance calibration 	0.0			
d, Other known causes	0.0			
e. Unknown causes	0.0			
Total CMS Downtime (hours)	0.0			
3, Total CMS Downtime (%)	0.00%			

					Excess Emissions Details	
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Potlutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There were no periods of excess emissions during this reporting period						

			CMS Downtime D	etai[s
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action
			There were no periods of downtime du	ring this reporting period,
		0.0		
		0,0		
		0.0		
		0.0		
		0,0		
		. 0*0		
		0.0		

Reporting Period Dates:

January 1, 2019 - March 3'1, 2019 Hibbling Taconite Company 4950 Hwy 5 North

Company Name:

Company Address:

Process Unit Identification:

Hibbling MN EU021 SV028

Process Unit Description:

Pellet Indurating Furnace Line No. 2; straight grate Indurating furnace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyze:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Manufacturer:
Date of Latest CMS Certification or Audit:

1,732 hours 75 days N/A SO2 Teledyne Monitor Labs T100H 119 2/1/2019

N/A

Excess Emissions Summary	
Duration of excess emissions in reporting period due to:	
a. Startup/Shutdown	0.0
b. Control equipment problems	0,0
c. Process problems	0,0
d, Other known causes	0,0
e, Unknown causes	0.0
2. Total duration of excess emissions (days)	0.0
3. Total duration of excess emissions (%)	6.00%

CMS Performance Summary				
1. CMS Eleventime in reporting period due to:				
a. Monitor equipment malfunctions	0.0			
 b. Non-Monitor equipment malfunctions 	0,0			
c, Quality assurance calibration	0,0			
d. Other known causes	0,0			
e. Unknown causes	0.0			
2. Total CMS Downtime (hours)	0.0			
2 Total CMS Downtime (%)	0.00%			

Excess Emissions Details						
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Poliutant Magnitude of Emissions	Cause of Excess Emissions	Corrective Action	
There were no periods of excess emissions during this reporting period						

	CMS Downtime Details							
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action				
	There were no periods of downtime during this reporting period.							
		0.0						
		0.0						
		0,0						
		0.0						
		0.0						
		0.0						
		0.0		A COMMUNICATION OF THE PROPERTY OF THE PROPERT				

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019 Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Hibbing MN EU021 SV028

Process Unit Identification: Process Unit Description:

Pellet indurating Furnace Line No. 2; straight grate indurating furnace,

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyze:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Serial Number:
Date of Latest CMS Certification or Audit: 1,732 hours

1,732 hours 75 days N/A Stack Flow Sick Maihak FLSE 100-H K178 35HSHS 11318678/ 11318673

7/17/2018

Excess Emissions Summary				
Duration of excess emissions in reporting period due to:				
a, Startup/Shutdown	0,0			
 b. Control equipment problems 	0.0			
c. Process problems	0.0			
d. Other known causes	0.0			
e, Unknown causes	0.0			
2. Total duration of excess emissions (days)	0.0			
3. Total duration of excess emissions (%)	0.00%			

CMS Performance Summary				
CMS Downtime in reporting period due to:				
a, Monitor equipment malfunctions	4.0			
 b. Non-Manitor equipment malfunctions 	0.0			
 Cuality assurance calibration 	0.0			
d. Other known causes	0.0			
e. Unknown causes	0.0			
2. Total CMS Downtime (hours)	4.0			
3 Total CMS Downtime (%)	n 230/.			

Excess Emissions Details						
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There were na periods of excess emissions during this reporting period						

CMS Downtime Details						
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action		
01/29/2019 02:00	01/29/2019 03:59	2,0	Monitor equipment malfunctions	Thawed frozen flow meter. Returned to operation, Followed SSM plan.		
01/30/2019 19:00	01/30/2019 19:59	1.0	Monitor equipment malfunctions	Thawed frozen flow meter, Returned to operation, Followed SSM plan,		
02/12/2019 00:00	02/12/2019 00:59	1.0	Monitor equipment malfunctions	Flow meter cleaned. Returned to operation, Followed SSM plan.		
		0.0				
		0,0				
		0,0				
		D,0				
		0.0				

Reporting Period Dates:

January 1, 2019 - March 31, 2019

Company Name:

Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Hibbing MN EU022

Process Unit Identification: Process Unit Description:

Pellet indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation:

Analyzer Analyte: Analyzer Manufacturer.

Analyzer Manufacturer Model No.: Analyzer Seriel Number: Date of Latest CMS Certification or Audit

2,119 hours 80 days N/A NOX See Individual Stacks See Individual Stacks See Individual Stacks See Individual Stacks

Description of changes in CEMS, processes, or controls since last reporting period:

See Individual Stacks

Excess Emissions Summary	·
1, Duration of excess emissions in reporting period due to:	
a. Startup/Shutdown	0.0
 Control equipment problems 	0.0
c. Process problems	0.0
d, Offier known causes	0.0
e, Unknown causes	0,0
Total duration of excess emissions (days)	0.0
3. Total duration of aveges emissions (%)	0.00%

				Excess Emissions Details	
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There were no periods of excess emissions during this reporting period					

	CMS Downtime Details					
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action		
			See Individual	Stacks		
		0,00				
		0,00				
		0.00				
		. 0.00				
	Í	0.00				
		0.00				
		0.00				

Reporting Period Dates; Company Name:

January 1, 2019 - March 31, 2019 Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Process Unit Identification:

Hibbling MN EU022 SV029

Process Unit Description;

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyzer:
Analyzer Manufacturer,
Analyzer Manufacturer,
Analyzer Manufacturer,
Date of Lalest CMS Certification or Audit;

2,119 hours 90 days N/A NOX Teledyne Monitor Labs 1200M

213 1/31/2019

Description of changes in CEMS, processes, or controls since last reporting period:

Excess Emissions Summary					
Duration of excess emissions in reporting period due to:					
a, Startup/Shutdown	0.0				
b. Control equipment problems	0.0				
c. Process problems	0,0				
d. Other known causes	0.0				
e, Unknown causes	0,0				
2. Total duration of excess emissions (days)	0,0				
3. Total duration of excess emissions (%)	0.00%				

CMS Performance Summary					
CMS Downtime in reporting period due to:					
 Monitor equipment malfunctions 	0,0				
 b. Non-Monitor equipment malfunctions 	0,0				
 Quality assurance calibration 	0_0				
d. Other known causes	0.0				
e. Unknown causes	0.0				
2. Total CMS Downtime (hours)	0.0				
3, Total CMS Downtime (%)	0,00%				

				Excess Emissions Details		
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant Emis	tude of Cause of Excess Emissions	Corrective Action	
There were no periods of excess emissions during this reporting period						

	CMS Downtime Details					
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action		
			There were no periods of monitor downtime during this rep	parting period		
		0.0				
		0,0				
		0,0				
		0,0				
		0,0				
		0,0				
		0,0				

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019

Hibbing Taconife Company 4950 Hwy 5 North

Company Address:

Hibbing MN EU022 SV029

Process Unit Identification: Process Unit Description:

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyze:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Senial Number:
Date of Latest CMS Certification or Audit;

2,119 hours 90 days N/A SO2

Teledyne Monitor Labs T100H 129 2/6/2019

Description of changes in CEMS, processes, or controls since last reporting period:

Excess Emissions Summary	
1. Duration of excess emissions in reporting period due to:	
a, Startup/Shutdown	0.0
 b. Control equipment problems 	0.0
c. Process problems	0.0
d. Other known causes	0.0
e. Unknown causes	0.0
2. Total duration of excess enrissions (days)	0,0
3. Total duration of excess emissions (%)	0.00%

CMS Performance Summary					
CMS Downtime in reporting period due to:					
 a. Monitor equipment malfunctions 	0.0				
 Non-Monitor equipment malfunctions 	0.0				
 Quality assurance calibration 	0.0				
d. Other known causes	0.0				
e. Unknown causes	0,0				
2. Total CMS Downtime (hours)	0.0				
3. Total CMS Dountime (%)	0.00%				

Excess Emissions Details						
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There were no periods of excess enviscions during this reporting period						

	CMS Downtime Details						
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action			
			There were no periods of monitor	downtime during this reporting period			
	1	0,0					
		0,0					
		0.0					
		0.0	_				
		0.0					
		0,0					
		0.0					

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019

Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Hibbing MN

Process Unit Identification:

EU022 SV029

Process Unit Description:

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyte:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Saral Number:
Date of Letest CMS Certification or Audit:

2,119 hours 90 days N/A Stack Flow Sick Maihak FLSE 100-H K178 35HSHS 11318876/ 11318983

Description of changes in CEMS, processes, or controls since last reporting period:

7/16/2018

Excess Emissions Summary	
1. Duration of excess emissions in reporting period due to:	
a, Startup/Shutdown	0.0
 b. Control equipment problems 	0.0
c. Process problems	0.0
d. Other known causes	0.0
e. Unknown causes	0.0
2. Total duration of excess emissions (days)	0.0
3. Total duration of excess emissions (%)	0,00%

CMS Performance Summary					
CMS Downtime in reporting period due to:					
a, Monitor equipment malfunctions	0.0				
 Non-Monitor equipment malfunctions 	0,0				
c. Quality assurance calibration	a,c				
d. Other known causes	0,0				
e, Unknown causes	0.0				
2. Total CMS Downtime (hours)	0.0				
3. Total CMS Downtime (%)	0.00%				

					Excess Emissions Details		
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action	
	There were no periods of excess emissions during this reporting period						

	CMS Downtime Details					
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action		
			There were no periods of manitor downtime during this	reporting period		
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019

Hibbing Teconite Company 4950 Hwy 5 North

Company Address:

Process Unit Identification:

Hibbing MN EU022 SV030

Process Unit Description:

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

2,119 hours
90 days
N/A
N/CX
Teledyne Monitor Labs
T200M

212

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyte:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Manufacturer Nodel No.:
Date of Lefest CMS Certifice@on or Audit.

1/31/2019

Description of changes in CEMS, processes, or controls since last reporting period:

NJA

Excess Emissions Summary	
Duration of excess emissions in reporting period due to:	
a. Startup/Shutdown	0.0
 b. Control equipment problems 	0.0
c. Process problems	0,0
d. Other known causes	0.0
e. Unknown causes	0.0
2. Total duration of excess emissions (days)	0,0
3. Total duration of excess emissions (%)	0.00%

CMS Performance Summary					
CMS Downtime in reporting period due to:					
a. Monitor equipment malfunctions	0.0				
 b. Non-Monitor equipment malfunctions 	0.0				
 c. Quality assurance calibration 	0.0				
d, Other known causes	0.0				
e, Unknown causes	0.0				
2. Total CMS Downtime (hours)	0.0				
3, Total CMS Downtime (%)	0.00%				

					Excess Emissions Details	
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There were no periods of excess emissions during this reporting period						

	CNS Downtime Details								
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action					
	There were no periods of monitor downtime during this reporting period								
	1	0.0							
		0.0							
		D,Q							
		0.0							
		0.0							
		0.0							
		0.0							

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019 Hibbing Taconite Company

Company Address:

4950 Hwy 5 North

Hibbing MN

Process Unit Identification:

EU022 SV030

Process Unit Description:

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyze: Analyze:
Analyze: Manufacturer:
Analyzer Manufacturer:
Analyzer Manufacturer:
Analyzer Sarial Number:
Date of Latest CMS Certification or Audit:

2,119 hours 90 days N/A SO2

SO2 Teledyne Monitor Labs T100H 130 2/6/2019

Description of changes in CEMS, processes, or controls since last reporting period:

ΝÆ

Excess Emissions Summary	
Duration of excess emissions in reporting period due to:	
a, Startup/Shutdown	0.0
 b. Control equipment problems 	0.0
c. Process problems	0,0
d, Other known causes	0.0
e, Unknown causes	0.0
2. Total duration of excess emissions (days)	0.0
3. Total duration of excess emissions (%)	0,00%

CMS Performance Summary					
CMS Downtime in reporting period due to:					
 a. Monitor equipment malfunctions 	0.0				
 b. Non-Monitor equipment malfunctions 	0.0				
 Quality assurance calibration 	0,0				
d. Other known causes	0.0				
e. Unknown causes	0.0				
2, Total CMS Downtime (hours)	0_0				
3 Total CMS Downtime (%)	ก กาง				

Excess Emissions Details							
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action	
There were na petiods of excess emissions during this reporting period							

	CMS Downtine Details							
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action				
			There were no periods of monitor dow	intime during this reporting period				
		0,0						
		0.0						
		0.0						
		0,0						
		0,0						
		0.0						
		0.0						

Reporting Period Dates:

January 1, 2019 - March 31, 2019

Company Name:

Company Address:

Hibbling Taconite Company 4950 Hwy 5 North

Hibbling MN

Process Unit Identification:

EU022 SV030

Process Unit Description:

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation;

Emission Limitation;
Analyzer Analytia;
Analyzer Manufacturer;
Analyzer Manufacturer Model No.;
Analyzer Serial Number;
Date of Latest CMS Certification or Audit;

2,119 hours 90 days N/A Stack Flow Stack Maihak FLSE 100-H K178 35HSHS 11318682/11318684 7/16/2018

Description of changes in CEMS, processes, or controls since last reporting period:

Excess Emissions Summary	
Duration of excess emissions in reporting period due to:	
a, Startup/Shutdown	0.0
 b. Control equipment problems 	0,0
c. Process problems	0.0
d. Other known causes	0,0
e. Unknown causes	0.0
2. Total duration of excess emissions (days)	0.0
3, Total duration of excess emissions (%)	0.00%

CMS Performance Summary	
CMS Downtime in reporting period due to:	
 Monitor equipment malfunctions 	0.0
 b. Non-Monitor equipment malfunctions 	0,0
c, Quality assurance calibration	0,0
d, Other known causes	0,0
e. Unknown causes	0.0
2. Total CMS Downtime (hours)	0.0
a Total CNC Department (941)	A 000/

				Excess Emissions Details		
Start Date & Time	End Date & Time	Duration of Excess Pollut Emissions (hours)	Magnitude of	Cause of Excess Emissions	Corrective Action	
	There were no periods of excess emissions diving this reporting period					

	CMS Downtime Details					
Start Date & Time End Date & Time Duration of Monitor Downtime (hours)		Cause of Monitor Downtime	Corrective Action			
			There were no periods of monitor de	owntime during this reporting period		
		· 0.0				
		0.0				
		0,0				
		0.0				
		0,0				
		0.0				
		0.0				

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019

Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Hibbing MN

Process Unit Identification:

EU022 SV031

Process Unit Description:

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation: Analyzer Analyte: Analyzer Manufacturer: Analyzer Manufacturer Model No.: Analyzer Serial Number: Date of Letest CMS Certification or Audit:

2,119 hours 90 days N/A NOX Teledyne Monitor Labs T200M

214 1/31/2019

Description of changes in CEMS, processes, or controls since last reporting period:

NJA

Excess Emissions Summary					
 Duration of excess emissions in reporting period due to: 					
a. Startup/Shutdown	0.0				
 b. Control equipment problems 	0.0				
c, Process problems	0.0				
d, Other known causes	0.0				
e, Unknown causes	0,0				
2, Total duration of excess emissions (days)	0,0				
3. Total duration of excess emissions (%)	0.00%				

CMS Performance Summary					
CMS Downtime in reporting period due to:					
 Monitor equipment malfunctions 	0.0				
 b, Non-Monitor equipment malfunctions 	0.0				
 Quality assurance callbration 	0.0				
d. Other known causes	0.0				
e. Unknown causes	0.0				
2. Total CMS Downtime (hours)	0.0				
2. Tetal CNC Departmen (96)	a nnn/				

					Excess Emissions Details	
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
	There were no worked of process assistation designs this year.					

	CMS Downtime Details					
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action		
	There were no periods of monitor downtime during this reporting period					
		0.0				
		0,0				
		0,0				
		0.0				
		0.0				
		0,0				
		0.0				

Reporting Period Dates:

January 1, 2019 - March 31, 2019

Company Name:

Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Hibbing MN

Process Unit Identification:

EU022 SV031

Process Unit Description:

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Pariod:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyte:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Serial Number:
Date of Latest CMS Certification or Audit

2,119 hours 90 days N/A SO2 Teledyne Monitor Labs T100H

132 2/6/2019

Description of changes in CEMS, processes, or controls since last reporting period:

Excess Emissions Summary					
Duration of excess emissions in reporting period due to:					
a. Startup/Shutdown	0.0				
 b. Control equipment problems 	0.0				
c, Process problems	0.0				
d. Other known causes	0.0				
e, Unknown causes	0,0				
2, Total duration of excess emissions (days)	0.0				
3. Total duration of excess emissions (%)	0.00%				

CMS Performance Summary	
CMS Downtime in reporting period due to:	
a. Monitor equipment malfunctions	0.0
 Non-Monitor equipment mailunations 	0.0
c. Quality assurance calibration	0.0
d. Other known causes	0.0
e. Unknown causes	0,0
2. Total CMS Downtime (hours)	0.0
7. Total CHO Deurstines (R/)	0.000

		•		Excess Emissions Details	
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There were no periods of excess emissions during this reporting period					

	CMS Downtime Details					
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action		
	There were no periods of monitor downtime during this reporting period					
		0.0				
		0,0				
		0.0				
		0.0				
		0.0				
		0,0				
***************************************		0.0				

Reporting Period Dates:

January 1, 2019 - March 31, 2019

Company Name:

Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Process Unit Identification:

Hibbing MN

EU022 SV031

Process Unit Description:

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

2,119 hours 90 days N/A Stack Flow Slok Maihak FLSE 100-H K178 35HSHS 11318870/ 11318677 748/2018

7/16/2018

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyze:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Manufacturer Model No.:
Analyzer Serial Number:
Oate of Latost CMS Certification or Audit:

Description of changes in CEMS, processes, or controls since last reporting period:

Excess Emissions Summary					
Duration of excess emissions in reporting period due to:					
a. Startup/Shutdown	0.0				
 b. Control equipment problems 	0,0				
c. Process problems	0,0				
d. Other known causes	0.0				
e, Unknown causes	0.0				
2. Total duration of excess emissions (days)	0.0				
3. Total duration of excess emissions (%)	0.00%				

CMS Performance Summary				
CMS Downtime in reporting period due to:				
 a. Monitor equipment malfunctions 	0.0			
 b. Non-Monitor equipment malfunctions 	0.0			
c, Quality assurance calibration	0.0			
d, Other known causes	0.0			
e. Unknown causes	0,0			
2, Tatal CMS Downtime (hours)	0.0			
9 Total CMS Dougland (94)	n naer			

					Excess Emissions Details	, , , , , , , , , , , , , , , , , , , ,
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
There were no periods of excess emissions during this reporting period						

	CMS Downtime Details						
Start Date & Time	End Date & Time	Duration of Monitor Downtima (hours)	Cause of Monitor Downtime	Corrective Action			
			There were no periods of monitor down	ntime during this reporting period			
		0,0					
		0.0					
		0,0					
		0.0					
		0.0					
		0.0					
	į l	0.0	,				

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019 Hibbing Taconite Company 4950 Hwy 5 North

Company Address:

Hibbing MN EU022 SV032

Process Unit Identification: Process Unit Description:

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Enrission Limitation:
Analyzer Analyze:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Manufacturer Model No.:
Date of Lafest CMS Certification or Audit.

2,119 hours 90 days N/A NOX Teledyne Monitor Labs 1200M 195 1/31/2019

Description of changes in CEMS, processes, or controls since last reporting period:

Excess Emissions Summary					
0.0					
0,0					
0,0					
0.0					
0.0					
0.0					
0,00%					

CMS Performance Summary					
CMS Downtime in reporting period due to:					
a. Monitor equipment malfunctions	0.0				
 Non-Monitor equipment malfunctions 	0,0				
 Quality assurance calibration 	0.0				
d. Other known causes	0,0				
e. Unknown causes	0,0				
2. Total CMS Downtime (hours)	0.0				
3. Total CMS Downtime (%)	0,00%				

				Excess Emissions Details			
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant Magnitude of Emissions	Cause of Excess Emissions	Corrective Action		
	There were no periods of excess emissions during this reporting period						

	CMS Downtime Details							
Start Date & Time	End Date & Time	Date & Time						
	There were no periods of manifer downtime during this reporting period							
		0,0						
		0.0						
		0,0						
		0.0						
		0.0						
		0.0						
		0.0						

Reporting Period Dates;

January 1, 2019 - March 31, 2019 Hibbing Taconite Company 4850 Hwy 5 North

Company Name:

Company Address:

Process Unit Identification:

Hibbing MN EU022 SV032

Process Unit Description:

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyze:
Analyzer Manufacturer;
Analyzer Manufacturer;
Analyzer Manufacturer Model No.:
Analyzer Senial Number:
Date of Latest CMS Certification or Audit;

2,119 hours 90 days N/A SO2 Teledyne Monitor Labs T100H

131 2/6/2019

N/A

Description of changes in CEMS, processes, or controls since last reporting period;

Excess Emissions Summary					
1. Duration of excess emissions in reporting period due to:					
a, Startup/Shutdown	0,0				
 b. Control equipment problems 	0,0				
c. Process problems	0.0				
d, Other known causes	0.0				
e, Unknown causes	0.0				
2. Total duration of excess emissions (days)	0.0				
3. Total duration of excess emissions (%)	0.00%				

CMS Performance Summary					
 CMS Downtime in reporting period due to: 					
 Monitor equipment malfunctions 	0.0				
 b. Non-Monitor equipment malfunctions 	0.0				
 Quality assurance calibration 	0.0				
d. Other known causes	0,0				
e, Unknown causes	0,0				
Total CMS Downtime (hours)	0.0				
3. Total CMS Downtime (%)	0.00%				

					Excess Emissions Details		
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action	
	There were no periods of excess emissions during this reporting period						

CMS Downtime Details								
Start Date & Time End Date & Time Downtime (hours) Cause of Monitor Downtime Corrective Action								
			There were no periods of monitor down	ntime during this reporting period				
		0,0						
		0.0						
		0.0						
		9,0						
		0,0						
		0.0						
	ļ	0.0						

Reporting Period Dates: Company Name:

January 1, 2019 - March 31, 2019 Hibbing Taconite Company

4950 Hwy 5 North

Company Address:

Hibbing MN

Process Unit Identification:

EU022 SV032

Process Unit Description:

Peffet Indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period:
Emission Limitation:
Analyzer Analyte:
Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Manufacturer:
Date of Latest CMS Certification or Audit:

2,119 hours 90 days N/A Stack Flow Sick Maihak FLSE 100-H K178 35HSHS 11318680/11318671 7/16/2018

Description of changes in CEMS, processes, or controls since last reporting period:

Excess Emissions Summary					
Duration of excess emissions in reporting period due to:					
a, Startup/Shutdown	0.0				
 b. Control equipment problems 	0.0				
c, Process problems	0.0				
d, Other known causes	8.0				
e. Unknown causes	0,0				
2. Total duration of excess emissions (days)	0.0				
3. Total duration of excess emissions (%)	0,00%				

CMS Performance Summary				
CMS Downtime in reporting period due to:				
a. Monitor equipment malfunctions	0.0			
 b. Non-Monitor equipment malfunctions 	0,0			
 c. Quality assurance calibration 	0.0			
d. Other known causes	0,0			
e. Unknown causes	0.0			
2. Total CMS Downtime (hours)	0.0			
3. Total CMS Downtime (%)	0.00%			

Excess Emissions Details							
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant Magnitude of Emissions	Cause of Excess Emissions	Corrective Action		
There were no periods of excess emissions during this reporting period							

CNS Downtime Details							
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action			
There were no periods of monitor downstine during this reporting period							
		0,0					
		0.0					
		0,0					
		0.0					
		0.0					
		0.0					
	L	0.0		AND THE RESIDENCE OF TH			